PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. PCT/US 06/30920 Applicant Metaproleomics, LLC This international search report has been prepared by this International Searching Authority and is transmitted to the applicacording to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	Applicant's or agent's file reference 068911-0151	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.			
PCT/US 06/30920 09 August 2006 (09.08.2006) 09 August 2005 (09.08.2005)	International application No.	International filing date (day/mo	onth/year)	(Earliest) Priority Date (day/month/year)			
Meiaproteomics, LLC This international search report has been prepared by this International Searching Authority and is transmitted to the applicacording to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	PCT/US 06/30920	09 August 2006 (09.08.2006)		1			
according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	Applicant						
It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of: the international application in the language in which it was filed a translation of the international application into of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 11) 2. Certain claims were found unsearchable (see Box No. 11) 3. Unity of invention is lacking (see Box No. 111) 4. With regard to the title, the text is approved as submitted by the applicant the text has been established by this Authority to read as follows:	according to Article 18. A copy is bein	g transmitted to the International	_	Authority and is transmitted to the applicant			
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2. Certain claims were found unsearchable (see Box No. II) 3. Unity of invention is lacking (see Box No. III) 4. With regard to the title, the text is approved as submitted by the applicant the text has been established by this Authority to read as follows: 5. With regard to the abstract, the text is approved as submitted by the applicant			onal search (
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may, within one month from the date of mailing of this international search report, submit comments to this Autho	may, within one month fro	om the date of mailing of this inter	national sear	ch report, submit comments to this Authority			
6. With regard to the drawings,	6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No. 1	a. the figure of the drawings to be	published with the abstract is Fig	ure No. 1				
as suggested by the applicant	as suggested by the	applicant					
as selected by this Authority, because the applicant failed to suggest a figure	as selected by this A	authority, because the applicant fa	iled to sugge	est a figure			
as selected by this Authority, because this figure better characterizes the invention	as selected by this A	uthority, because this figure bette	r characteriz	es the invention			
b. none of the figures is to be published with the abstract	b. none of the figures is to be	published with the abstract					

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 06/30920

CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 65/00; A61K 31/12 (2007.01) USPC - 424/775, 424/778; 514/690

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A01N 65/00; A61K 31/12 (2007.01)

USPC - 424/775, 424/778; 514/690

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 424/757; 424/780

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (USPTO, PGPB, EPAB, JPAB); Google Patents; Google Scholar

Search Terms: hops, humulone, lupulone, prenylflavonoid, chalcone, xanthohumol, isoalpha acid, protein kinase, Inflammation, cancer, diabetes, retinopathy, ocular, acacia catechu, acacia nllotica, vitamin, selenium, zinc, copper, lutein, zeaxanthin

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x 	GERHAUSER, C. *Beer constituents as potential cancer chemopreventive agents.* European Journal of Cancer, 13 June 2005, Vol. 41, pages 1941-1954 [online]. [Retrieved on 2007.06.11]. [Retrieved from the internet:	1-2, 4-6, 8-9, 17-18, 20-22, 24-25, and 34
Y	http://www.dkfz.de/en/lox/download/gerh/pdf-files/Europ.JCancer_41_1941-1954_2005.pdf]	3, 7, 10-16, 19, 23, and 26-32
Y	US 2003/0180402 A1 (JIA et al.) 25 September 2003 (25.09.2003), para [0014], [0015], [0024], [0032], [0057]-[0060], and [0078].	10-12 and 26-28
Y	VANHOENACKER, G. et al. "Analysis of iso—acids in beer by direct injection and liquid chromatography with ultraviolet absorbance detection or with mass spectrometry." Journal of Chromatography A, 30 April 2004, Vol. 1035, No. 1, pages 53-61 [online]. [Retrieved on 2007.06.13]. [Retrieved from the internet: http://www.sciencedirect.com/science/journal/00219673].	7, 16, 23, and 32
Y	COHEN, P. "Protein kinases: The major drug targets of the twenty-first century?" Nature Reviews: Drug Discovery, April 2002, Vol. 1, pages 309-315 [online]. [Retrieved on 2007.06.13]. [Retrieved from the internet: http://www.nature.com/reviews/drugdisc].	3 and 19
Y	US 6,689,388 B2 (KUHRTS) 10 February 2004 (10.02.2004), col. 6, in 19-25, and col. 8, in 27-67.	13-15 and 29-31
Υ	GILANI, et al. "Studies on antihypertensive and antispasmoic activities of methanol extract of Acacia nilotica pods." Phytotherapy Research, 30 November 1999, Vol. 13, No. 8, pages 665-669 [online]. [Retrieved on 2007.06.12]. [Retrieved from the internet: http://www3.interscience.wiley.com/cgi-bin/abstract/67501841/ABSTRACT].	16 and 32
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\boxtimes	Further documents	are listed in the	continuation of Box C.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on or after the international " χ " filing date "E"
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other means
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Lee W. Young

document member of the same patent family

Date of the actual completion of the international search Date of mailing of the international search report 15 June 2007 (15.06.2007)

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International application No.
PCT/US 06/30920

C (Continua	Nigg) DOCHMENTS CONSIDER	PCT/US 06/30920
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ategory*	Citation of document, with indication, where appropriate, of the relevant	passages Relevant to claim N
	WO 03/082249 A1 (LANG) 9 October 2003 (09.10.2003), pg 14.	33
	US 5,919,813 A (DE JUAN) 6 July 1999 (06.07.1999), col. 6, in 64 and col. 7, in	1.0
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